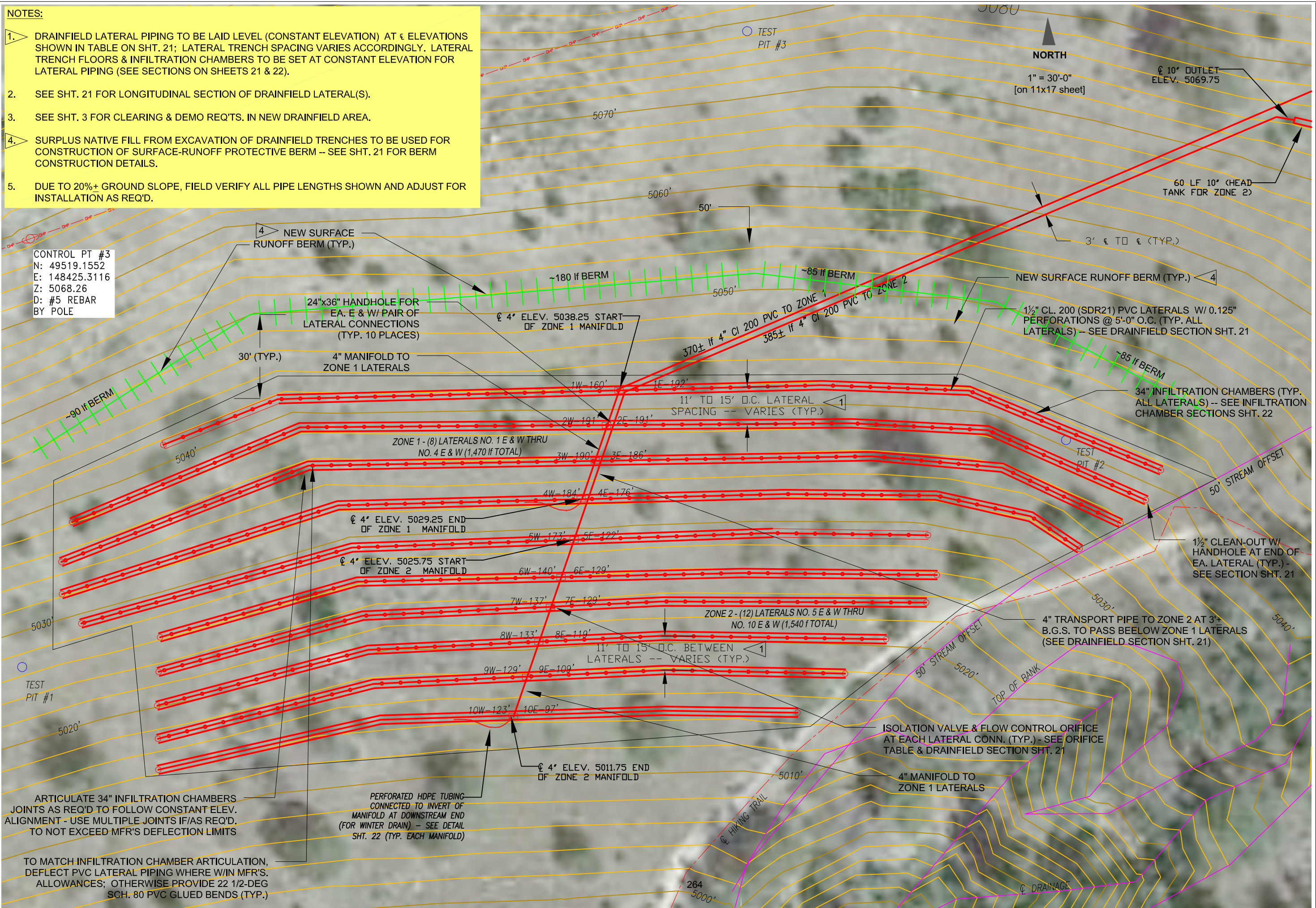


NOTES:

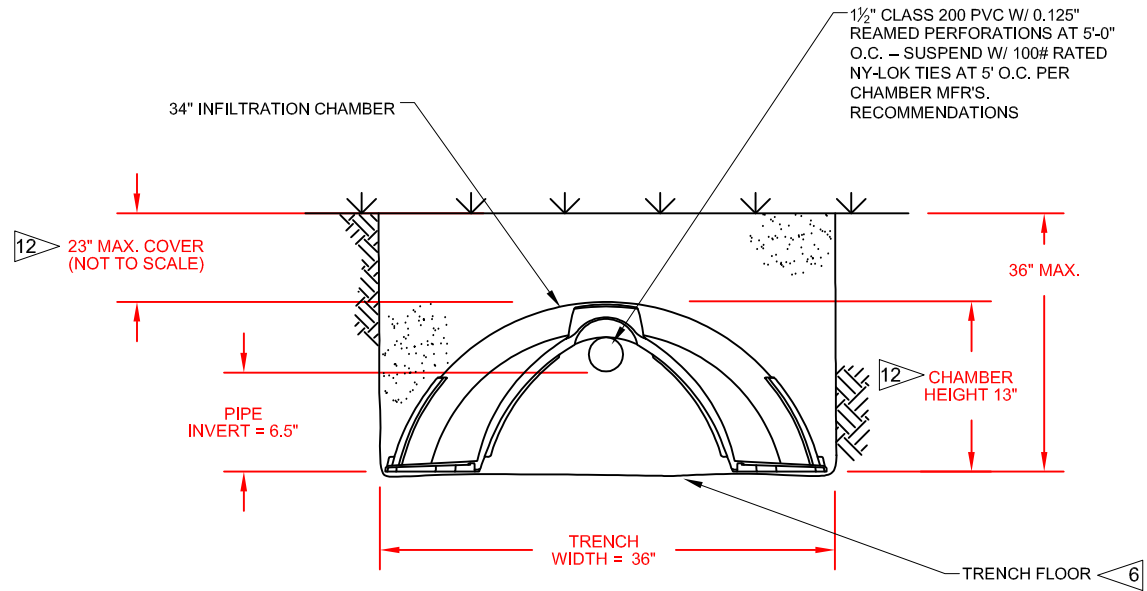
1. DRAINFIELD LATERAL PIPING TO BE LAID LEVEL (CONSTANT ELEVATION) AT ϵ ELEVATIONS SHOWN IN TABLE ON SHT. 21; LATERAL TRENCH SPACING VARIES ACCORDINGLY. LATERAL TRENCH FLOORS & INFILTRATION CHAMBERS TO BE SET AT CONSTANT ELEVATION FOR LATERAL PIPING (SEE SECTIONS ON SHEETS 21 & 22).
2. SEE SHT. 21 FOR LONGITUDINAL SECTION OF DRAINFIELD LATERAL(S).
3. SEE SHT. 3 FOR CLEARING & DEMO REQ'TS. IN NEW DRAINFIELD AREA.
4. SURPLUS NATIVE FILL FROM EXCAVATION OF DRAINFIELD TRENCHES TO BE USED FOR CONSTRUCTION OF SURFACE-RUNOFF PROTECTIVE BERM -- SEE SHT. 21 FOR BERM CONSTRUCTION DETAILS.
5. DUE TO 20%+ GROUND SLOPE, FIELD VERIFY ALL PIPE LENGTHS SHOWN AND ADJUST FOR INSTALLATION AS REQ'D.

CONTROL PT #3
N: 49519.1552
E: 148425.3116
Z: 5068.26
D: #5 REBAR
BY POLE



designed: Alden G. Beard, P.E.
date: July 31, 2017
revised: Feb. 19, 2019

Lewis & Clark Caverns State Park
Upper Visitor Center Septic Replacement
DRAINFIELD PLAN

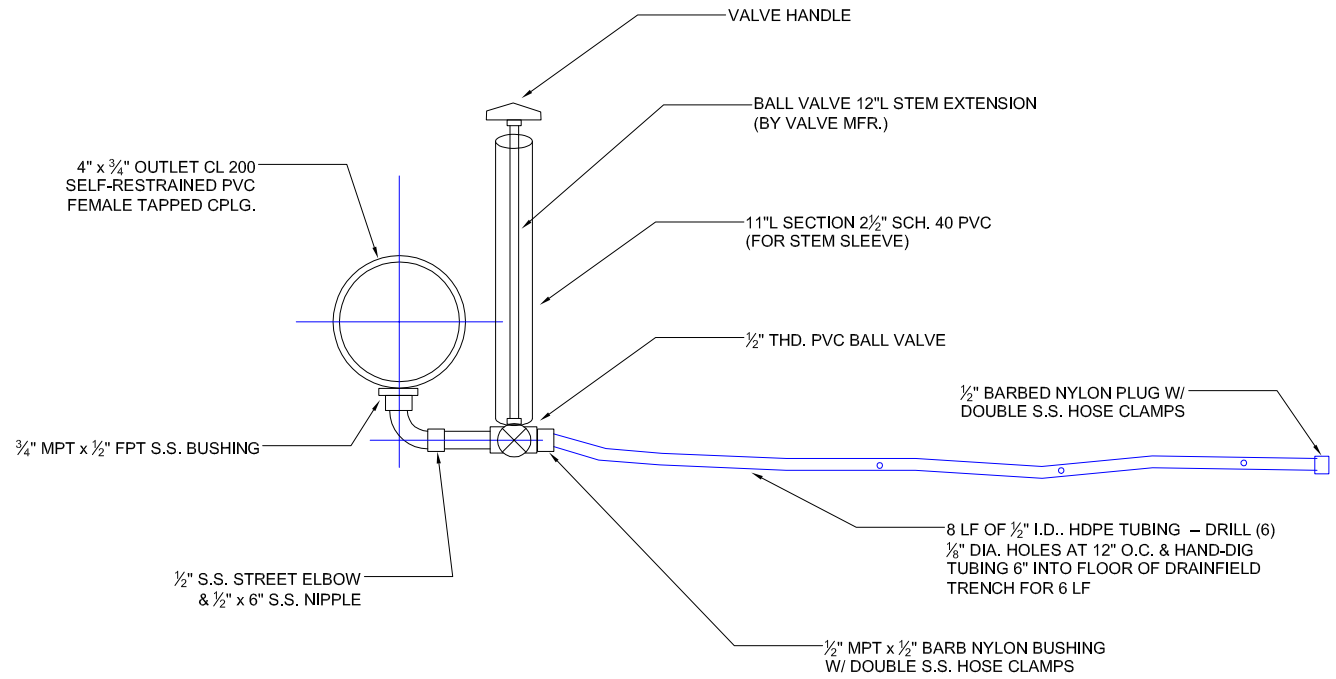


NOTES:

- EXCAVATE TRENCHES AT UNIFORM ELEVATION PER DRAINFIELD PLAN AND DETAILS.
- SMOOTH IRREGULARITIES IN THE TRENCH FLOOR EXCAVATION TO A LEVEL FLAT SURFACE.
- ASSEMBLE LEACHING CHAMBERS AND APPURTENANCES AND INSTALL/SUPPORT DISTRIBUTION LATERAL PIPING PER CHAMBER MFR'S. RECOMMENDATIONS.
- INSTALL END CAPS AND SECURE IN PLACE WITH BACKFILL.
- PUNCH OUT PIPE HOLE OPENINGS IN THE END PLATES AS REQ'D. TO CONNECT INLET PIPES AND TERMINAL CLEANOUTS.
- SCARIFY FULL WIDTH OF TRENCH FLOORS & TRENCH WALLS TO FULL HEIGHT OF INFILTRATION CHAMBERS AT 1 1/2" DEPTH W/ HAND RAKES PRIOR TO CHAMBER PLACEMENT.
- NO MECHANIZED EQUIPMENT ALLOWED ATOP EXCAVATED TRENCH FLOORS.
- FILL SIDEWALL AREA TO TOP OF CHAMBERS WITH NATIVE SOIL (COARSE SAND OR FINE GRAVEL, MAY ALSO BE USED: NO HEAVY CLAY, SILT, OR DEBRIS SHALL BE INCLUDED.)
- "WALK IN" FILL TO COMPACT SOIL ALONG SIDES OF CHAMBERS TO EQUIVALENT OF ADJACENT NATIVE IN SITU SOILS.
- COVER LEACHING CHAMBERS WITH SCREENED SELECT NATIVE BACKFILL, DEVOID OF ROCKS, CLODS, OR FRAGMENTS LARGER THAN 1 1/2" NOMINAL DIAMETER OR ANY VEGETATIVE OR OTHER DEBRIS.
- NO MECHANIZED COMPACTION OR OTHER CONSTRUCTION EQUIPMENT ALLOWED ALONG OR ATOP INSTALLED CHAMBERS!
- INFILTRATION CHAMBER HEIGHT MAY VARY BY MFR. (SUBJECT TO REQ'TS. FOR SUBMITTAL REVIEW) -- DO NOT EXCEED MAXIMUM TRENCH DEPTH SHOWN.
- IF A SAMPLE OF SOIL WITHIN THE WORKING DEPTH CAN BE EASILY ROLLED INTO THE SHAPE OF A WIRE OR RIBBON, THE SOIL MOISTURE CONTENT IS TOO HIGH FOR CONSTRUCTION PURPOSES.
- IF APPARENT CLAY SOIL TYPES ARE ENCOUNTERED, CONSULT THE ENGINEER BEFORE PROCEEDING.

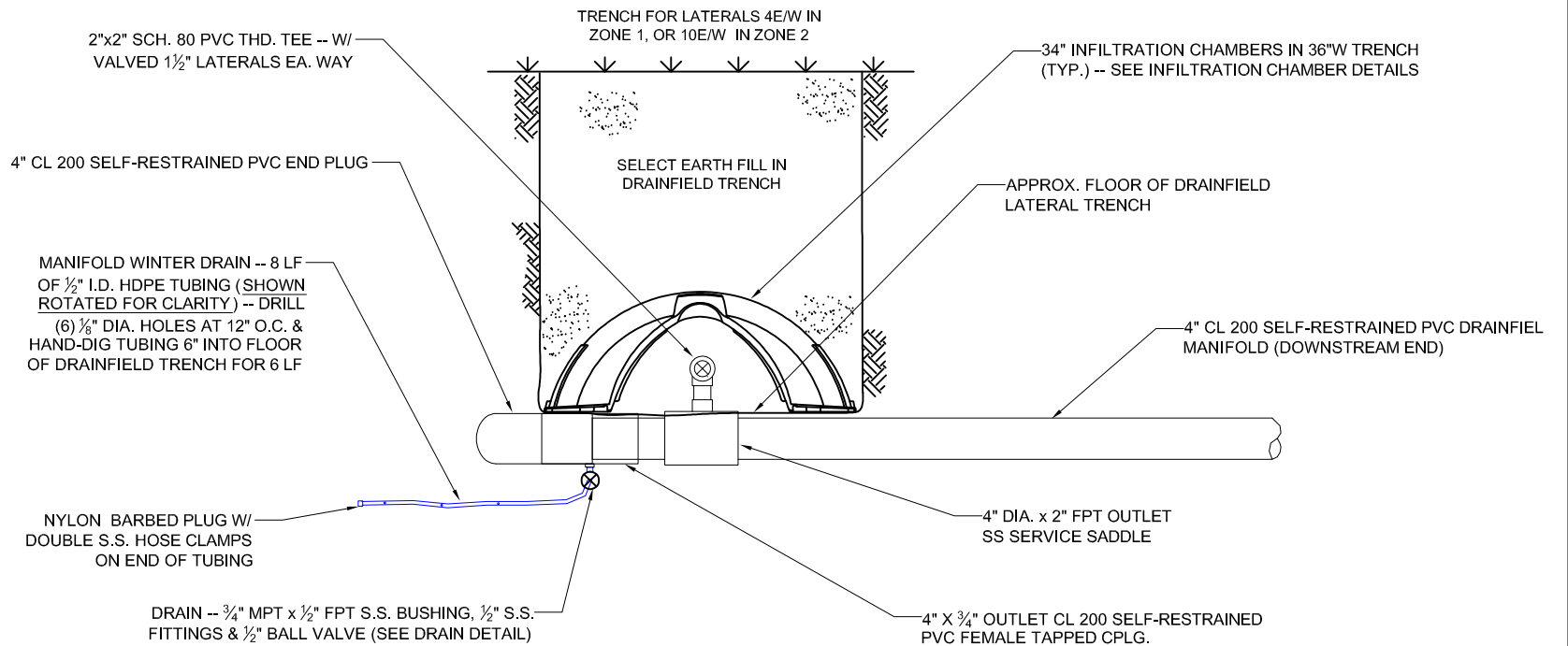
INFILTRATION CHAMBER & DRAINFIELD TRENCH SECTION (TYP.)

scale: 3/4" = 1'-0"



WINTER DRAIN DETAIL (TYP.)

scale: 1" = 0'-6"



DRAINFIELD MANIFOLD WINTER DRAIN (TYP. END EA. MANIFOLD)

scale: 1/2" = 1'-0"



designed: Alden G. Beard, P.E.

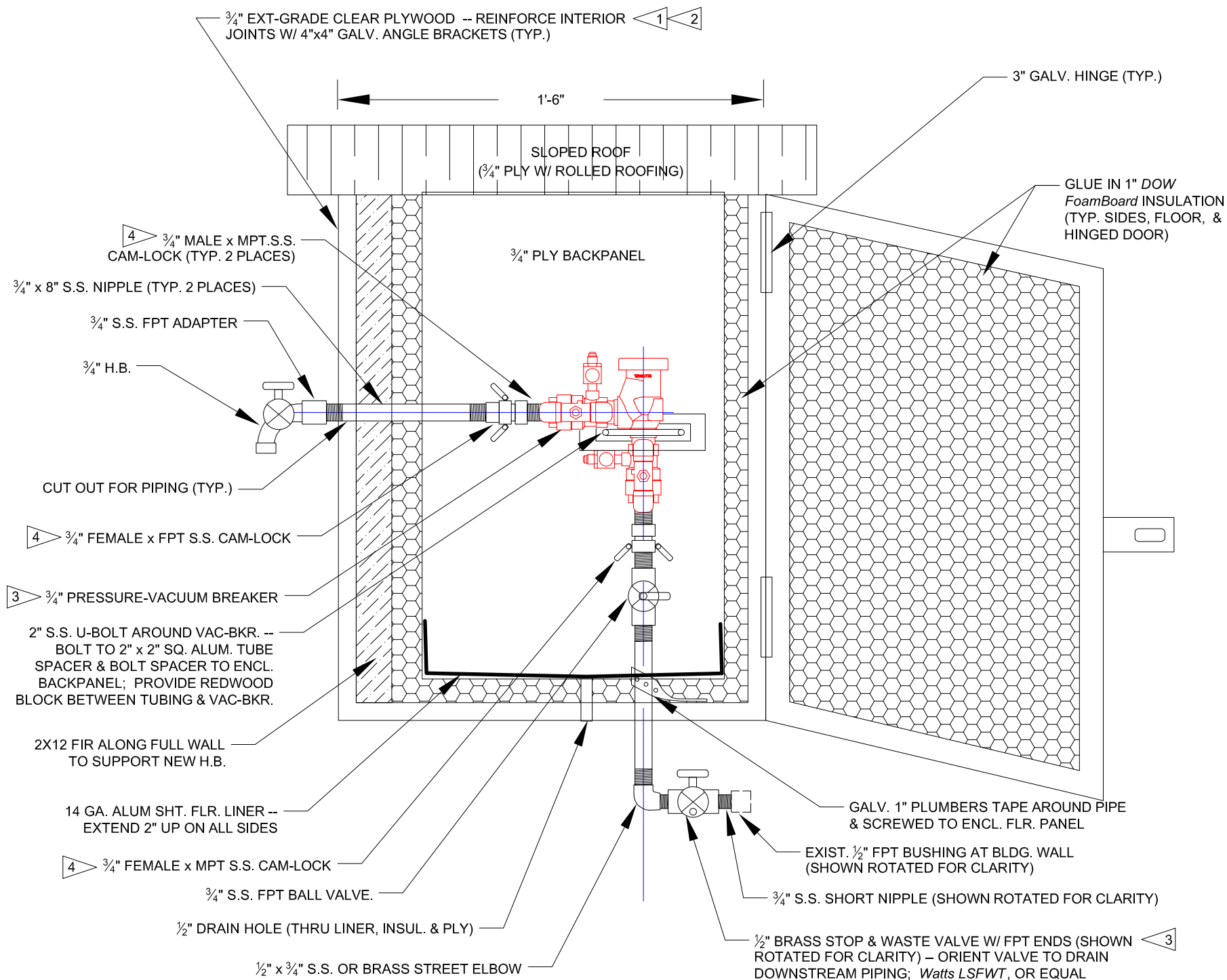
date: Oct. 6, 2017

revised: Feb. 19, 2019

Lewis & Clark Caverns State Park

Upper Visitor Center Septic Replacement

CONCESSION BLDG. BACKFLOW PREVENTION DETAILS

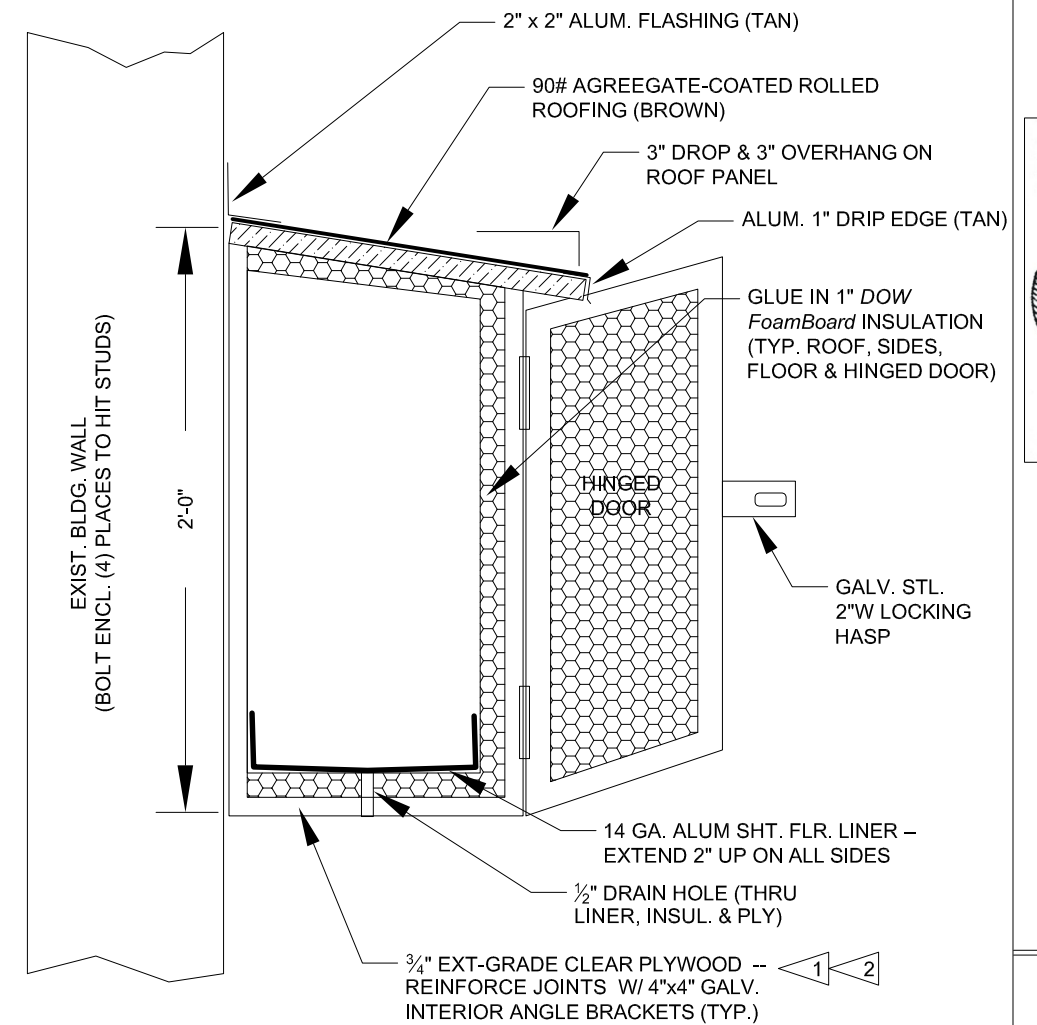


PRESSURE-VACUUM BREAKER PLUMBING & ENCLOSURE ELEVATION

scale: 1" = ~6" [on 11x17 sheet]

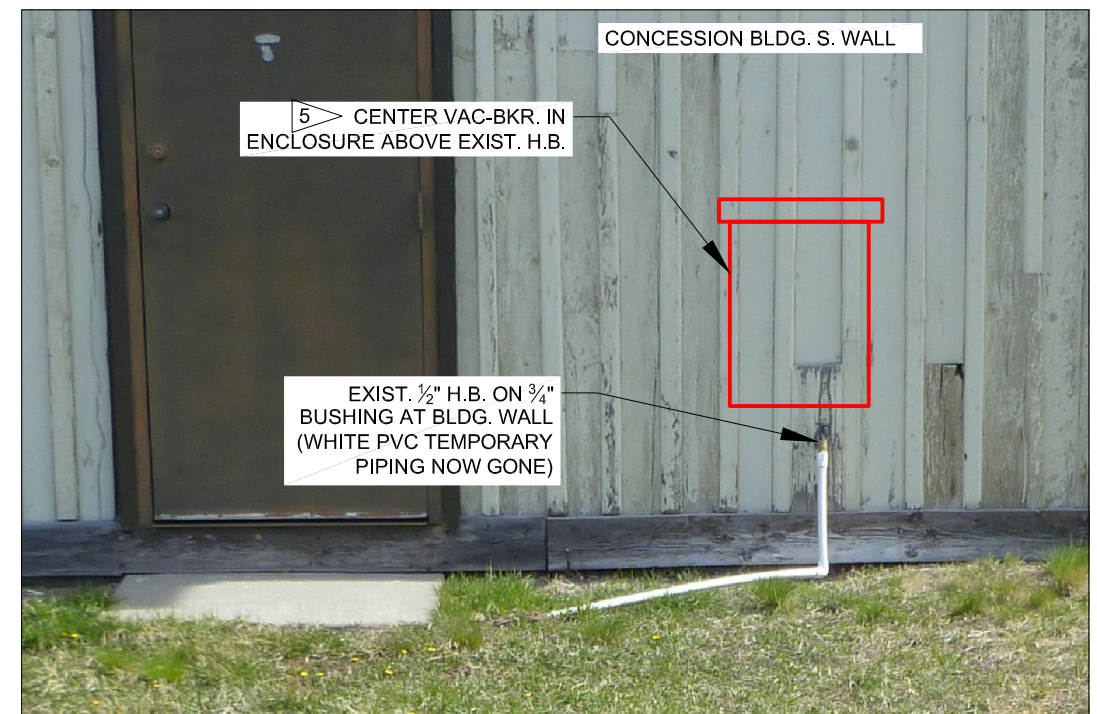
NOTES:

1. PROVIDE 1x2 FURRING STRIPS ON ROOF, SIDES & DOOR OF ENCLOSURE TO MATCH STYLE & SPACING OF EXIST. BLDG. SIDING.
2. PAINT ENCLOSURE EXTERIOR W/ (2) COATS SELF-PRIMING EXTERIOR LATEX – COLOR TO MATCH EXIST. BLDG. SIDING.
3. PRESSURE-VACUUM BREAKER ASSEMBLY TO BE REMOVED FOR WINTER USING CAM-LOCK FITTINGS; INLET PIPING TO BE DRAINED THROUGH STOP & WASTE VALVE.
4. ALL CAM-LOCK FITTINGS TO BE 150 PSI RATED.
5. PROVIDE CLEARANCE BETWEEN ENCLOSURE & NEW 240V ELECTRICAL CONDUIT (SEE ELECTRICAL SHEETS 15 & 18).



VACUUM BREAKER ENCLOSURE SECTION

scale: $1\frac{1}{2}" = 1'-0"$ [on 11x17 sheet]



VACUUM BREAKER & ENCLOSURE LOCATION

no scale